ELSEVIER

Environmental and Experimental Botany 46 (2000) 313–317

Environmental and Experimental Botany

www.elsevier.com/locate/envexpbot

Cumulative Author Index, Vols. 45–46

Acosta, F.J., *see* Delgado, J.A. et al.
Agrawal, M., *see* Deepak, S.S.
Alessa, L. and Oliveira, L.
Aluminum toxicity studies in *Vaucheria longicaulis* var. *macounii* (Xanthophyta, Tribophyceae). I. Effects on cytoplasmic organization 45 (2000) 205
Alessa, L. and Oliveira, L.
Aluminum toxicity studies in *Vaucheria longicaulis* var. *macounii* (Xanthophyta, Tribophyceae). II. Effects on the F-actin array. 45 (2000) 223
Arthur, G.D., Jäger, A.K. and Van Staden, J.
The release of cytokinin-like compounds from *Gingko biloba* leaf material during composting 45 (2000) 55
Ashraf, M.
Relationships between growth and gas exchange characteristics in some salt-tolerant amphidiploid *Brassica* species in relation to their diploid parents 45 (2000) 155

Bellamy, C., *see* Kahane, R. et al.
Boukema, I., *see* Kahane, R. et al.
Boykin, D.L., *see* Pritchard, S.G. et al.
Buchsbaum, R., *see* Burdick, D.M. et al.
Burdick, D.M., Buchsbaum, R. and Holt, E.
Variation in soil salinity associated with expansion of *Phragmites australis* in salt marshes. 46 (2000) 247

Caeyenberghs, E., *see* Deckmyn, G. et al.
Carrasco-Rodriguez, J.L. and del Valle-Tascon, S.
Impact of elevated ozone on chlorophyll *a* fluorescence in field-grown oat (*Avena sativa*) 45 (2000) 133
Cecatto, V.M., *see* Silveira, J.A.G. et al.
Ceulemans, R., *see* Deckmyn, G. et al.
Chabbi, A., Hines, M.E. and Rumpel, C.
The role of organic carbon excretion by bulbous rush roots and its turnover and utilization by bacteria under iron plaques in extremely acid sediments. 46 (2000) 237
Chabbi, A., *see* Pezeshki, S.R.
Chamaux, C., *see* Kahane, R. et al.
Chen, H., *see* Pan, J.-w. et al.
Clearwater, M.J., *see* Meinzer, F.C. et al.

Davis, D.G. and Swanson, H.R.
Activity of stress-related enzymes in the perennial weed leafy spurge (*Euphorbia esula* L.) 46 (2000) 95
Davis, M.A., *see* Pritchard, S.G. et al.
Dawitt, M., *see* Fitzsimons, M.F. et al.
Day, T.A., *see* Ruhland, C.T.
Deckmyn, G., Caeyenberghs, E. and Ceulemans, R.
Reduced UV-B in greenhouses decreases white clover response to enhance CO_2 . . . . . 46 (2000) 109
Deepak, S.S. and Agrawal, M.
Influence of elevated CO_2 on the sensitivity of two soybean cultivars to sulphur dioxide 46 (2000) 81
De Kok, L.J., *see* Stuiver, C.E.E.

PII: S0098-8472(00)00118-6

del Valle-Tascon, S., *see* Carrasco-Rodriguez, J.L.
Deléens, E., *see* Merah, O. et al.
Delgado, J.A., Serrano, J.M., López, F. and Acosta, F.J.
Heat shock, mass-dependent germination, and seed yield as related components of fitness in *Cistus ladanifer* . 46 (2000) 11

Erkan, M., Wang, C.Y. and Krizek, D.T.
UV-C irradiation reduces microbial populations and deterioration in *Cucurbita pepo* fruit tissue 45 (2000) 1
Evans, L.S., Kahn-Jetter, Z., Frenz, C., Pancrudo, J. and Lagrazon, K.
Compressive/tensile stresses and lignified cells as resistance components in joints between cladodes of *Opuntia laevis* (Cactaceae): responses to applied stresses 46 (2000) 47
Evans, L.S., Lagrazon, K. and Pancrudo, J.
Diversity of cell lengths in terminal portions of roots: location of the proliferative cell population 45 (2000) 85
Evans, L.S., Sullivan, J.H. and Lim, M.
Initial effects of UV-B radiation on stem surfaces of *Stenocereus thurberi* (organ pipe cacti) 46 (2000) 181

Fitzsimons, M.F., Kahni-danon, B. and Dawitt, M.
Distributions and adsorption of the methylamines in the inter-tidal sediments of an East Anglian Estuary . . 46 (2000) 225
Frenz, C., *see* Evans, L.S. et al.
Fu, J. and Huang, B.
Involvement of antioxidants and lipid peroxidation in the adaptation of two cool-season grasses to localized drought stress 45 (2000) 105
Fyson, A., *see* Nixdorf, B. et al.

Gazarini, L.C., *see* Mendes, M.M. et al.
Gelang, J., Selldén, G., Younis, S. and Pleijel, H.
Effects of ozone on biomass, non-structural carbohydrates and nitrogen in spring wheat with artificially manipulated source/sink ratio 46 (2000) 155
Goldstein, G., *see* Meinzer, F.C. et al.

Häder, D.-P., Porst, M. and Lebert, M.
Photosynthetic performance of the Atlantic brown macroalgae, *Cystoseira abies-marina*, *Dictyota dichotoma* and *Sargassum vulgare*, measured in Gran Canaria on site 45 (2000) 21
He, J. and Lee, S.K.
Relationship among photosynthesis, ribulose-1,5-bisphosphate carboxylase (Rubisco) and water relations of the subtropical vegetable Chinese broccoli grown in the tropics by manipulation of root-zone temperature 46 (2000) 119
Hester, M.W., Mendelssohn, I.A. and McKee, K.L.
Species and population variation to salinity stress in *Panicum hemitomon*, *Spartina patens*, and *Spartina alterniflora*: morphological and physiological constraints 46 (2000) 277
Hines, M.E., *see* Chabbi, A. et al.
Holt, E., *see* Burdick, D.M. et al.
Huang, B., *see* Fu, J.

Idso, K.E., *see* Idso, S.B.
Idso, S.B. and Idso, K.E.
Effects of atmospheric CO_2 enrichment on plant constituents related to animal and human health 45 (2000) 179
Idso, S.B. and Kimball, B.A.
CO_2 enrichment of sour orange trees: 13 years and counting 46 (2000) 147
Ikeda, T., *see* Sultana, N. et al.

Jäger, A.K., *see* Arthur, G.D. et al.
Jan, F., Yamashita, K., Matsumoto, H. and Maeda, M.
Protein and peroxidase changes in various root-cell fractions of two upland rice cultivars differing in Al tolerance 46 (2000) 141
Johnson, M.G., Tingey, D.T., Phillips, D.L. and Storm, M.J.
Advancing fine root research with minirhizotrons 45 (2000) 263

Kahane, R., Vialle-Guérin, E., Boukema, I., Tzanoudakis, D., Bellamy, C., Chamaux, C. and Kik, C.
Changes in non-structural carbohydrate composition during bulbing in sweet and high-solid onions in field experiments 45 (2000) 73

Kerbauy, G.B., *see* Majerowicz, N. et al.
Kahni-danon, B., *see* Fitzsimons, M.F. et al.
Kahn-Jetter, Z., *see* Evans, L.S. et al.
Kashem, M.A., *see* Sultana, N. et al.
Kik, C., *see* Kahane, R. et al.
Kimball, B.A., *see* Idso, S.B.
Kong, T., *see* Mendelssohn, I.A. et al.
Koshiji, T., *see* Sakata, M. et al.
Krizek, D.T., *see* Erkan, M. et al.
Krumbeck, H., *see* Nixdorf, B. et al.
Küsel, K., Roth, U., Trinkwalter, T. and Peiffer, S.
Effect of pH on the anaerobic microbial cycling of sulfur in mining-impacted freshwater lake sediments. . . . 46 (2000) 213

Lagrazon, K., *see* Evans, L.S. et al.
Lagrazon, K., *see* Evans, L.S. et al.
Lebert, M., *see* Häder, D.-P. et al.
Lee, S.K., *see* He, J.
Lim, M., *see* Evans, L.S. et al.
López, F., *see* Delgado, J.A. et al.

Maeda, M., *see* Jan, F. et al.
Matos, J.C.S., *see* Silveira, J.A.G. et al.
Matsumoto, H., *see* Jan, F. et al.
McKee, K.L., *see* Hester, M.W. et al.
McKee, K.L., *see* Mendelssohn, I.A. et al.
McNaughton, S.J., *see* Tessier, J.T. et al.
Meinzer, F.C., Clearwater, M.J. and Goldstein, G.
Water transport in trees: current perspectives, new insights and some controversies 45 (2000) 239
Melo, A.R.B., *see* Silveira, J.A.G. et al.
Mendelssohn, I.A., McKee, K.L. and Kong, T.
A comparison of physiological indicators of sublethal cadmium stress in wetland plants 46 (2000) 263
Mendelssohn, I.A., *see* Hester, M.W. et al.
Mendes, M.M., Gazarini, L.C. and Rodrigues, M.L.
Acclimation of *Myrtus communis* to contrasting Mediterranean light environments — effects on structure and chemical composition of foliage and plant water relations. 45 (2000) 165
Merah, O., Monneveux, P. and Deléens, E.
Relationships between flag leaf carbon isotope discrimination and several morpho-physiological traits in durum wheat genotypes under Mediterranean conditions. 45 (2000) 63
Mitchell, R.J., *see* Pritchard, S.G. et al.
Monneveux, P., *see* Merah, O. et al.

Nixdorf, B., Fyson, A. and Krumbeck, H.
Review: plant life in extremely acidic waters. 46 (2000) 203

Oliveira, J.T.A., *see* Silveira, J.A.G. et al.
Oliveira, J.T.A., *see* Silveira, J.A.G. et al.
Oliveira, L., *see* Alessa, L.
Oliveira, L., *see* Alessa, L.
Otte, M.L.
What is stress to a wetland plant? 46 (2000) 195

Pancrudo, J., *see* Evans, L.S. et al.
Pancrudo, J., *see* Evans, L.S. et al.
Pan, J.-w., Zhu, M.-y. and Chen, H.
Aluminum-induced cell death in root-tip cells of barley 46 (2000) 71
Peiffer, S., *see* Küsel, K. et al.
Pezeshki, S.R. and Chabbi, A.
The dedicated issue of Environmental and Experimental Botany 46 (2000) 191

Pezeshki, S.R.
Wetland plant responses to soil flooding 46 (2000) 299
Phillips, D.L., *see* Johnson, M.G. et al.
Pleijel, H., *see* Gelang, J. et al.
Polle, A., *see* Schwanz, P.
Porst, M., *see* Häder, D.-P. et al.
Prior, S.A., *see* Pritchard, S.G. et al.
Pritchard, S.G., Davis, M.A., Mitchell, R.J., Prior, S.A., Boykin, D.L., Rogers, H.H. and Runion, G.B.
Root dynamics in an artificially constructed regenerating longleaf pine ecosystem are affected by atmospheric CO_2 enrichment 46 (2000) 55

Rajashekar, C.B., *see* Xing, W.
Raynal, D.J., *see* Tessier, J.T. et al.
Rodrigues, M.L., *see* Mendes, M.M. et al.
Rogers, H.H., *see* Pritchard, S.G. et al.
Roth, U., *see* Küsel, K. et al.
Ruhland, C.T. and Day, T.A.
Size and longevity of seed banks in Antarctica and the influence of ultraviolet-B radiation on survivorship, growth and pigment concentrations of *Colobanthus quitensis* seedlings 45 (2000) 143
Rumpel, C., *see* Chabbi, A. et al.
Runion, G.B., *see* Pritchard, S.G. et al.

Sakata, M., Suzuki, K. and Koshiji, T.
Variations of wood $\delta^{13}C$ for the past 50 years in declining Siebold's beech (*Fagus crenata*) forests 45 (2000) 33
Schwanz, P. and Polle, A.
Growth under elevated CO_2 ameliorates defenses against photo-oxidative stress in poplar (*Populus alba x tremula*) 45 (2000) 43
Selldén, G., *see* Gelang, J. et al.
Sellin, A.
Morphological and stomatal responses of Norway spruce foliage to irradiance within a canopy depending on shoot age 45 (2000) 115
Serrano, J.M., *see* Delgado, J.A. et al.
Silveira, J.A.G., Matos, J.C.S., Cecatto, V.M., Viegas, R.A. and Oliveira, J.T.A.
Nitrate reductase activity, distribution, and response to nitrate in two contrasting *Phaseolus* species inoculated with *Rhizobium* spp. 46 (2000) 37
Silveira, J.A.G., Melo, A.R.B., Viégas, R.A. and Oliveira, J.T.A.
Salinity-induced effects on nitrogen assimilation related to growth in cowpea plants 46 (2000) 171
Storm, M.J., *see* Johnson, M.G. et al.
Stuiver, C.E.E. and De Kok, L.J.
Atmospheric H_2S as sulfur source for *Brassica oleracea*: kinetics of H_2S uptake and activity of O-acetylserine (thiol)lyase as affected by sulfur nutrition 46 (2000) 29
Sullivan, J.H., *see* Evans, L.S. et al.
Sultana, N., Ikeda, T. and Kashem, M.A.
Effect of foliar spray of nutrient solutions on photosynthesis, dry matter accumulation and yield in seawater-stressed rice 46 (2000) 129
Suzuki, K., *see* Sakata, M. et al.
Swanson, H.R., *see* Davis, D.G.

Tessier, J.T., McNaughton, S.J. and Raynal, D.J.
Influence of nutrient availability and tree wildling density on nutrient uptake by *Oxalis acetosella* and *Acer saccharum* 45 (2000) 11
Tingey, D.T., *see* Johnson, M.G. et al.
Trinkwalter, T., *see* Küsel, K. et al.
Tulik, M.
Cambial history of Scots pine trees (*Pinus Sylvestris*) prior and after the Chernobyl accident as encoded in the xylem 46 (2000) 1
Tzanoudakis, D., *see* Kahane, R. et al.

Van Staden, J., *see* Arthur, G.D. et al.
Vialle-Guérin, E., *see* Kahane, R. et al.
Viégas, R.A., *see* Silveira, J.A.G. et al.
Viegas, R.A., *see* Silveira, J.A.G. et al.

Wang, C.Y., *see* Erkan, M. et al.

Xing, W. and Rajashekar, C.B.
Glycine betaine involvement in freezing tolerance and water stress in *Arabidopsis thaliana* 46 (2000) 21

Yamashita, K., *see* Jan, F. et al.
Younis, S., *see* Gelang, J. et al.

Zhu, M.-y., *see* Pan, J.-w. et al.

ELSEVIER

Environmental and Experimental Botany 46 (2001) 319–329

Environmental and Experimental Botany

www.elsevier.com/locate/envexpbot

Cumulative Subject Index, Vols. 45–46

Abscisic acid
Glycine betaine involvement in freezing tolerance and water stress in *Arabidopsis thaliana*, 46 (2000) 21

Acidity
Review: plant life in extremely acidic waters, 46 (2000) 203

Acid mine drainage
Effect of pH on the anaerobic microbial cycling of sulfur in mining-impacted freshwater lake sediments, 46 (2000) 213

Acid-tolerant sulfate reducer
Effect of pH on the anaerobic microbial cycling of sulfur in mining-impacted freshwater lake sediments, 46 (2000) 213

Adaptations
Review: plant life in extremely acidic waters, 46 (2000) 203

Adenylate charge ratio
A comparison of physiological indicators of sublethal cadmium stress in wetland plants, 46 (2000) 263

Adsorption
Distributions and adsorption of the methylamines in the intertidal sediments of an East Anglian Estuary, 46 (2000) 225

Aerial fertilization effect
CO_2 enrichment of sour orange trees: 13 years and counting, 46 (2000) 147

Air pollution
Variations of wood $\delta^{13}C$ for the past 50 years in declining Siebold's beech (*Fagus crenata*) forests, 45 (2000) 33

Alkalinity
Effect of pH on the anaerobic microbial cycling of sulfur in mining-impacted freshwater lake sediments, 46 (2000) 213

Allium cepa
Changes in non-structural carbohydrate composition during bulbing in sweet and high-solid onions in field experiments, 45 (2000) 73

Aluminium sensitivity
Protein and peroxidase changes in various root-cell fractions of two upland rice cultivars differing in Al tolerance, 46 (2000) 141

Aluminum
Aluminum toxicity studies in *Vaucheria longicaulis* var. *macounii* (Xanthophyta, Tribophyceae). II. Effects on the F-actin array, 45 (2000) 223

Aluminum toxicity studies in *Vaucheria longicaulis* var. *macounii* (Xanthophyta, Tribophyceae). I. Effects on cytoplasmic organization, 45 (2000) 205

Ambient ozone
Impact of elevated ozone on chlorophyll *a* fluorescence in field-grown oat (*Avena sativa*), 45 (2000) 133

Anaerobic sulfur cycling
Effect of pH on the anaerobic microbial cycling of sulfur in mining-impacted freshwater lake sediments, 46 (2000) 213

Antarctica
Size and longevity of seed banks in Antarctica and the influence of ultraviolet-B radiation on survivorship, growth and pigment concentrations of *Colobanthus quitensis* seedlings, 45 (2000) 143

Anthesis
Effects of ozone on biomass, non-structural carbohydrates and nitrogen in spring wheat with artificially manipulated source/sink ratio, 46 (2000) 155

Anticlinal division
Cambial history of Scots pine trees (*Pinus Sylvestris*) prior and after the Chernobyl accident as encoded in the xylem, 46 (2000) 1

Antioxidants
Effects of atmospheric CO_2 enrichment on plant constituents related to animal and human health, 45 (2000) 179

Involvement of antioxidants and lipid peroxidation in the adaptation of two cool-season grasses to localized drought stress, 45 (2000) 105

Growth under elevated CO_2 ameliorates defenses against photo-oxidative stress in poplar (*Populus alba x tremula*), 45 (2000) 43

PII: S0098-8472(00)00119-8

Apoptosis
Aluminum-induced cell death in root-tip cells of barley, 46 (2000) 71

Aquatic ecosystems
Review: plant life in extremely acidic waters, 46 (2000) 203

Ascorbic acid peroxidase
Activity of stress-related enzymes in the perennial weed leafy spurge (*Euphorbia esula* L.), 46 (2000) 95

Avena sativa
Impact of elevated ozone on chlorophyll *a* fluorescence in field-grown oat (*Avena sativa*), 45 (2000) 133

Belowground competition
Root dynamics in an artificially constructed regenerating longleaf pine ecosystem are affected by atmospheric CO_2 enrichment, 46 (2000) 55

Betaine
Glycine betaine involvement in freezing tolerance and water stress in *Arabidopsis thaliana*, 46 (2000) 21

Biomass
Influence of elevated CO_2 on the sensitivity of two soybean cultivars to sulphur dioxide, 46 (2000) 81

Biomass partitioning
Reduced UV-B in greenhouses decreases white clover response to enhance CO_2, 46 (2000) 109

B. napus
Relationships between growth and gas exchange characteristics in some salt-tolerant amphidiploid *Brassica* species in relation to their diploid parents, 45 (2000) 155

Brassica alboglabra
Relationship among photosynthesis, ribulose-1,5-bisphosphate carboxylase (Rubisco) and water relations of the subtropical vegetable Chinese broccoli grown in the tropics by manipulation of root-zone temperature, 46 (2000) 119

Brassica carinata
Relationships between growth and gas exchange characteristics in some salt-tolerant amphidiploid *Brassica* species in relation to their diploid parents, 45 (2000) 155

Cambium
Cambial history of Scots pine trees (*Pinus Sylvestris*) prior and after the Chernobyl accident as encoded in the xylem, 46 (2000) 1

Cancer
Effects of atmospheric CO_2 enrichment on plant constituents related to animal and human health, 45 (2000) 179

Capacitance
Water transport in trees: current perspectives, new insights and some controversies, 45 (2000) 239

Carbohydrates
Acclimation of *Myrtus communis* to contrasting Mediterranean light environments — effects on structure and chemical composition of foliage and plant water relations, 45 (2000) 165

Carbon
The role of organic carbon excretion by bulbous rush roots and its turnover and utilization by bacteria under iron plaques in extremely acid sediments, 46 (2000) 237

Carbon dioxide
CO_2 enrichment of sour orange trees: 13 years and counting, 46 (2000) 147

Effects of atmospheric CO_2 enrichment on plant constituents related to animal and human health, 45 (2000) 179

Catalase
Activity of stress-related enzymes in the perennial weed leafy spurge (*Euphorbia esula* L.), 46 (2000) 95

Cd tolerance
A comparison of physiological indicators of sublethal cadmium stress in wetland plants, 46 (2000) 263

Cell lengths
Diversity of cell lengths in terminal portions of roots: location of the proliferative cell population, 45 (2000) 85

Cells elimination
Cambial history of Scots pine trees (*Pinus Sylvestris*) prior and after the Chernobyl accident as encoded in the xylem, 46 (2000) 1

Cellular fractions
Protein and peroxidase changes in various root-cell fractions of two upland rice cultivars differing in Al tolerance, 46 (2000) 141

Chilling injury
UV-C irradiation reduces microbial populations and deterioration in *Cucurbita pepo* fruit tissue, 45 (2000) 1

Chlorophyll
Acclimation of *Myrtus communis* to contrasting Mediterranean light environments — effects on structure and chemical composition of foliage and plant water relations, 45 (2000) 165

Chlorophyll fluorescence
A comparison of physiological indicators of sublethal cadmium stress in wetland plants, 46 (2000) 263

Impact of elevated ozone on chlorophyll *a* fluorescence in field-grown oat (*Avena sativa*), 45 (2000) 133

Cladode joints
Compressive/tensile stresses and lignified cells as resistance components in joints between cladodes of *Opuntia laevis* (Cactaceae): responses to applied stresses, 46 (2000) 47

Climate change
Growth under elevated CO_2 ameliorates defenses against photo-oxidative stress in poplar (*Populus alba x tremula*), 45 (2000) 43

CO_2
CO_2 enrichment of sour orange trees: 13 years and counting, 46 (2000) 147

Cohesion theory
Water transport in trees: current perspectives, new insights and some controversies, 45 (2000) 239

Cold acclimation
Glycine betaine involvement in freezing tolerance and water stress in *Arabidopsis thaliana*, 46 (2000) 21

Cold tolerance
Glycine betaine involvement in freezing tolerance and water stress in *Arabidopsis thaliana*, 46 (2000) 21

Colobanthus quitensis
Size and longevity of seed banks in Antarctica and the influence of ultraviolet-B radiation on survivorship, growth and pigment concentrations of *Colobanthus quitensis* seedlings, 45 (2000) 143

Compost
The release of cytokinin-like compounds from *Gingko biloba* leaf material during composting, 45 (2000) 55

Cucurbita pepo
UV-C irradiation reduces microbial populations and deterioration in *Cucurbita pepo* fruit tissue, 45 (2000) 1

Cytoplasmic streaming
Aluminum toxicity studies in *Vaucheria longicaulis* var. *macounii* (Xanthophyta, Tribophyceae). I. Effects on cytoplasmic organization, 45 (2000) 205

Data quality
Advancing fine root research with minirhizotrons, 45 (2000) 263

Deschampsia antarctica
Size and longevity of seed banks in Antarctica and the influence of ultraviolet-B radiation on survivorship, growth and pigment concentrations of *Colobanthus quitensis* seedlings, 45 (2000) 143

Dimethylamine
Distributions and adsorption of the methylamines in the intertidal sediments of an East Anglian Estuary, 46 (2000) 225

Drought stress
Glycine betaine involvement in freezing tolerance and water stress in *Arabidopsis thaliana*, 46 (2000) 21

Drought tolerance
Relationships between flag leaf carbon isotope discrimination and several morpho-physiological traits in durum wheat genotypes under Mediterranean conditions, 45 (2000) 63

Dry matter
Changes in non-structural carbohydrate composition during bulbing in sweet and high-solid onions in field experiments, 45 (2000) 73

Ecophysiology
Photosynthetic performance of the Atlantic brown macroalgae, *Cystoseira abies-marina*, *Dictyota dichotoma* and *Sargassum vulgare*, measured in Gran Canaria on site, 45 (2000) 21

Elevated CO_2
Root dynamics in an artificially constructed regenerating longleaf pine ecosystem are affected by atmospheric CO_2 enrichment, 46 (2000) 55

Environmental stresses
Variations of wood $\delta^{13}C$ for the past 50 years in declining Siebold's beech (*Fagus crenata*) forests, 45 (2000) 33

Ethylene
UV-C irradiation reduces microbial populations and deterioration in *Cucurbita pepo* fruit tissue, 45 (2000) 1

Evergreen Mediterranean shrub
Heat shock, mass-dependent germination, and seed yield as related components of fitness in *Cistus ladanifer*, 46 (2000) 11

F-actin aggregates
Aluminum toxicity studies in *Vaucheria longicaulis* var. *macounii* (Xanthophyta, Tribophyceae). II. Effects on the F-actin array, 45 (2000) 223

F-actin fragmentation
Aluminum toxicity studies in *Vaucheria longicaulis* var. *macounii* (Xanthophyta, Tribophyceae). II. Effects on the F-actin array, 45 (2000) 223

Fine roots
Root dynamics in an artificially constructed regenerating longleaf pine ecosystem are affected by atmospheric CO_2 enrichment, 46 (2000) 55

Fire
Heat shock, mass-dependent germination, and seed yield as related components of fitness in *Cistus ladanifer*, 46 (2000) 11

Flooding
Wetland plant responses to soil flooding, 46 (2000) 299

Foliage age
Morphological and stomatal responses of Norway spruce foliage to irradiance within a canopy depending on shoot age, 45 (2000) 115

Forest decline
Variations of wood $\delta^{13}C$ for the past 50 years in declining Siebold's beech (*Fagus crenata*) forests, 45 (2000) 33

Fructans
Changes in non-structural carbohydrate composition during bulbing in sweet and high-solid onions in field experiments, 45 (2000) 73

Fructose
Changes in non-structural carbohydrate composition during bulbing in sweet and high-solid onions in field experiments, 45 (2000) 73

Gas exchange
Wetland plant responses to soil flooding, 46 (2000) 299

Genotypexenvironment (GxE)
Changes in non-structural carbohydrate composition during bulbing in sweet and high-solid onions in field experiments, 45 (2000) 73

Glutathione reductase
Activity of stress-related enzymes in the perennial weed leafy spurge (*Euphorbia esula* L.), 46 (2000) 95

Glutathione *S*-transferase
Activity of stress-related enzymes in the perennial weed leafy spurge (*Euphorbia esula* L.), 46 (2000) 95

Glycine betaine
Species and population variation to salinity stress in *Panicum hemitomon*, *Spartina patens*, and *Spartina alterniflora*: morphological and physiological constraints, 46 (2000) 277

Glycine max
Influence of elevated CO_2 on the sensitivity of two soybean cultivars to sulphur dioxide, 46 (2000) 81

Glycine max
The release of cytokinin-like compounds from *Gingko biloba* leaf material during composting, 45 (2000) 55

Grain filling
Effects of ozone on biomass, non-structural carbohydrates and nitrogen in spring wheat with artificially manipulated source/sink ratio, 46 (2000) 155

Grass
Involvement of antioxidants and lipid peroxidation in the adaptation of two cool-season grasses to localized drought stress, 45 (2000) 105

Growth
Reduced UV-B in greenhouses decreases white clover response to enhance CO_2, 46 (2000) 109

Influence of elevated CO_2 on the sensitivity of two soybean cultivars to sulphur dioxide, 46 (2000) 81

Growth stages
Effect of foliar spray of nutrient solutions on photosynthesis, dry matter accumulation and yield in seawater-stressed rice, 46 (2000) 129

Harvest index
Relationships between flag leaf carbon isotope discrimination and several morpho-physiological traits in durum wheat genotypes under Mediterranean conditions, 45 (2000) 63

Herbicide
Growth under elevated CO_2 ameliorates defenses against photo-oxidative stress in poplar (*Populus alba x tremula*), 45 (2000) 43

Herb layer
Influence of nutrient availability and tree wildling density on nutrient uptake by *Oxalis acetosella* and *Acer saccharum*, 45 (2000) 11

Hordeum vulgare
Aluminum-induced cell death in root-tip cells of barley, 46 (2000) 71

H_2S deposition
Atmospheric H_2S as sulfur source for *Brassica oleracea*: kinetics of H_2S uptake and activity of O-acetylserine (thiol)lyase as affected by sulfur nutrition, 46 (2000) 29

H_2S fumigation
Atmospheric H_2S as sulfur source for *Brassica oleracea*: kinetics of H_2S uptake and activity of O-acetylserine (thiol)lyase as affected by sulfur nutrition, 46 (2000) 29

Humic material
The release of cytokinin-like compounds from *Gingko biloba* leaf material during composting, 45 (2000) 55

Hydraulic architecture
Water transport in trees: current perspectives, new insights and some controversies, 45 (2000) 239

Image collection
Advancing fine root research with minirhizotrons, 45 (2000) 263

Interaction
Reduced UV-B in greenhouses decreases white clover response to enhance CO_2, 46 (2000) 109

Intrusive growth
Cambial history of Scots pine trees (*Pinus Sylvestris*) prior and after the Chernobyl accident as encoded in the xylem, 46 (2000) 1

Invasive species
Variation in soil salinity associated with expansion of *Phragmites australis* in salt marshes, 46 (2000) 247

Ionising radiation
Cambial history of Scots pine trees (*Pinus Sylvestris*) prior and after the Chernobyl accident as encoded in the xylem, 46 (2000) 1

Iron plaque
The role of organic carbon excretion by bulbous rush roots and its turnover and utilization by bacteria under iron plaques in extremely acid sediments, 46 (2000) 237

Iron reduction
Effect of pH on the anaerobic microbial cycling of sulfur in mining-impacted freshwater lake sediments, 46 (2000) 213

Iso-pentenyladenosine
The release of cytokinin-like compounds from *Gingko biloba* leaf material during composting, 45 (2000) 55

Juncus bulbosus
The role of organic carbon excretion by bulbous rush roots and its turnover and utilization by bacteria under iron plaques in extremely acid sediments, 46 (2000) 237

Leachate
The release of cytokinin-like compounds from *Gingko biloba* leaf material during composting, 45 (2000) 55

Leaf anatomy
Acclimation of *Myrtus communis* to contrasting Mediterranean light environments — effects on structure and chemical composition of foliage and plant water relations, 45 (2000) 165

Leaf conductance
Acclimation of *Myrtus communis* to contrasting Mediterranean light environments — effects on structure and chemical composition of foliage and plant water relations, 45 (2000) 165
Morphological and stomatal responses of Norway spruce foliage to irradiance within a canopy depending on shoot age, 45 (2000) 115

Lignified xylem cells
Compressive/tensile stresses and lignified cells as resistance components in joints between cladodes of *Opuntia laevis* (Cactaceae): responses to applied stresses, 46 (2000) 47

Limitation
Review: plant life in extremely acidic waters, 46 (2000) 203

Long-lived columnar cacti
Initial effects of UV-B radiation on stem surfaces of *Stenocereus thurberi* (organ pipe cacti), 46 (2000) 181

Macrophytes
Review: plant life in extremely acidic waters, 46 (2000) 203

Mechanical stresses
Compressive/tensile stresses and lignified cells as resistance components in joints between cladodes of *Opuntia laevis* (Cactaceae): responses to applied stresses, 46 (2000) 47

Metabolites
Influence of elevated CO_2 on the sensitivity of two soybean cultivars to sulphur dioxide, 46 (2000) 81

Microorganisms
The role of organic carbon excretion by bulbous rush roots and its turnover and utilization by bacteria under iron plaques in extremely acid sediments, 46 (2000) 237

Mineral elements
Effect of foliar spray of nutrient solutions on photosynthesis, dry matter accumulation and yield in seawater-stressed rice, 46 (2000) 129

Mining lakes
The role of organic carbon excretion by bulbous rush roots and its turnover and utilization by bacteria under iron plaques in extremely acid sediments, 46 (2000) 237

Model ecosystem
Root dynamics in an artificially constructed regenerating longleaf pine ecosystem are affected by atmospheric CO_2 enrichment, 46 (2000) 55

Monomethylamine
Distributions and adsorption of the methylamines in the intertidal sediments of an East Anglian Estuary, 46 (2000) 225

Morphology
Species and population variation to salinity stress in *Panicum hemitomon*, *Spartina patens*, and *Spartina alterniflora*: morphological and physiological constraints, 46 (2000) 277

Necrosis
Aluminum-induced cell death in root-tip cells of barley, 46 (2000) 71

Needle morphology
Morphological and stomatal responses of Norway spruce foliage to irradiance within a canopy depending on shoot age, 45 (2000) 115

New England
Variation in soil salinity associated with expansion of *Phragmites australis* in salt marshes, 46 (2000) 247

Nitrate assimilation
Salinity-induced effects on nitrogen assimilation related to growth in cowpea plants, 46 (2000) 171

Nitrate reductase
Salinity-induced effects on nitrogen assimilation related to growth in cowpea plants, 46 (2000) 171

Nitrate reductase activity, distribution, and response to nitrate in two contrasting *Phaseolus* species inoculated with *Rhizobium* spp., 46 (2000) 37

Nitrogen
Acclimation of *Myrtus communis* to contrasting Mediterranean light environments — effects on structure and chemical composition of foliage and plant water relations, 45 (2000) 165

Effects of atmospheric CO_2 enrichment on plant constituents related to animal and human health, 45 (2000) 179

Influence of nutrient availability and tree wildling density on nutrient uptake by *Oxalis acetosella* and *Acer saccharum*, 45 (2000) 11

Nitrogen metabolism
Salinity-induced effects on nitrogen assimilation related to growth in cowpea plants, 46 (2000) 171

Nodules
Nitrate reductase activity, distribution, and response to nitrate in two contrasting *Phaseolus* species inoculated with *Rhizobium* spp., 46 (2000) 37

Nutrient input
Influence of nutrient availability and tree wildling density on nutrient uptake by *Oxalis acetosella* and *Acer saccharum*, 45 (2000) 11

Nutrient retention
Influence of nutrient availability and tree wildling density on nutrient uptake by *Oxalis acetosella* and *Acer saccharum*, 45 (2000) 11

O-acetylserine
Atmospheric H_2S as sulfur source for *Brassica oleracea*: kinetics of H_2S uptake and activity of O-acetylserine (thiol)lyase as affected by sulfur nutrition, 46 (2000) 29

Opuntia laevis
Compressive/tensile stresses and lignified cells as resistance components in joints between cladodes of *Opuntia laevis* (Cactaceae): responses to applied stresses, 46 (2000) 47

Orange trees
CO_2 enrichment of sour orange trees: 13 years and counting, 46 (2000) 147

Oryza sativa
Protein and peroxidase changes in various root-cell fractions of two upland rice cultivars differing in Al tolerance, 46 (2000) 141

Effect of foliar spray of nutrient solutions on photosynthesis, dry matter accumulation and yield in seawater-stressed rice, 46 (2000) 129

Osmotica
Species and population variation to salinity stress in *Panicum hemitomon*, *Spartina patens*, and *Spartina alterniflora*: morphological and physiological constraints, 46 (2000) 277

Oxidative stress
Involvement of antioxidants and lipid peroxidation in the adaptation of two cool-season grasses to localized drought stress, 45 (2000) 105

Growth under elevated CO_2 ameliorates defenses against photo-oxidative stress in poplar (*Populus alba x tremula*), 45 (2000) 43

Ozone
Variations of wood $\delta^{13}C$ for the past 50 years in declining Siebold's beech (*Fagus crenata*) forests, 45 (2000) 33

Ozone depletion
Size and longevity of seed banks in Antarctica and the influence of ultraviolet-B radiation on survivorship, growth and pigment concentrations of *Colobanthus quitensis* seedlings, 45 (2000) 143

PAM fluorescence
Photosynthetic performance of the Atlantic brown macroalgae, *Cystoseira abies-marina*, *Dictyota dichotoma* and *Sargassum vulgare*, measured in Gran Canaria on site, 45 (2000) 21

Panicum hemitomon
Species and population variation to salinity stress in *Panicum hemitomon*, *Spartina patens*, and *Spartina alterniflora*: morphological and physiological constraints, 46 (2000) 277

Peroxidases
Protein and peroxidase changes in various root-cell fractions of two upland rice cultivars differing in Al tolerance, 46 (2000) 141

Phaeophyta
Photosynthetic performance of the Atlantic brown macroalgae, *Cystoseira abies-marina*, *Dictyota dichotoma* and *Sargassum vulgare*, measured in Gran Canaria on site, 45 (2000) 21

Phaseolus lunatus
Nitrate reductase activity, distribution, and response to nitrate in two contrasting *Phaseolus* species inoculated with *Rhizobium* spp., 46 (2000) 37

Phaseolus vulgaris
Nitrate reductase activity, distribution, and response to nitrate in two contrasting *Phaseolus* species inoculated with *Rhizobium* spp., 46 (2000) 37

Phosphorus
Influence of nutrient availability and tree wildling density on nutrient uptake by *Oxalis acetosella* and *Acer saccharum*, 45 (2000) 11

Photoinhibition
Impact of elevated ozone on chlorophyll *a* fluorescence in field-grown oat (*Avena sativa*), 45 (2000) 133

Photosynthetic performance of the Atlantic brown macroalgae, *Cystoseira abies-marina*, *Dictyota dichotoma* and *Sargassum vulgare*, measured in Gran Canaria on site, 45 (2000) 21

Photosynthesis
Wetland plant responses to soil flooding, 46 (2000) 299

A comparison of physiological indicators of sublethal cadmium stress in wetland plants, 46 (2000) 263

Effect of foliar spray of nutrient solutions on photosynthesis, dry matter accumulation and yield in seawater-stressed rice, 46 (2000) 129

Reduced UV-B in greenhouses decreases white clover response to enhance CO_2, 46 (2000) 109

Relationship among photosynthesis, ribulose-1,5-bisphosphate carboxylase (Rubisco) and water relations of the subtropical vegetable Chinese broccoli grown in the tropics by manipulation of root-zone temperature, 46 (2000) 119

Influence of elevated CO_2 on the sensitivity of two soybean cultivars to sulphur dioxide, 46 (2000) 81

Relationships between growth and gas exchange characteristics in some salt-tolerant amphidiploid *Brassica* species in relation to their diploid parents, 45 (2000) 155

Impact of elevated ozone on chlorophyll *a* fluorescence in field-grown oat (*Avena sativa*), 45 (2000) 133

Growth under elevated CO_2 ameliorates defenses against photo-oxidative stress in poplar (*Populus alba x tremula*), 45 (2000) 43

Photosynthetic photon flux density
Morphological and stomatal responses of Norway spruce foliage to irradiance within a canopy depending on shoot age, 45 (2000) 115

Photosynthetic yield
Photosynthetic performance of the Atlantic brown macroalgae, *Cystoseira abies-marina*, *Dictyota dichotoma* and *Sargassum vulgare*, measured in Gran Canaria on site, 45 (2000) 21

Phragmites
Variation in soil salinity associated with expansion of *Phragmites australis* in salt marshes, 46 (2000) 247

Phytoplankton
Review: plant life in extremely acidic waters, 46 (2000) 203

Picea abies
Morphological and stomatal responses of Norway spruce foliage to irradiance within a canopy depending on shoot age, 45 (2000) 115

Pinus palustris
Root dynamics in an artificially constructed regenerating longleaf pine ecosystem are affected by atmospheric CO_2 enrichment, 46 (2000) 55

Plant competition
Influence of nutrient availability and tree wildling density on nutrient uptake by *Oxalis acetosella* and *Acer saccharum*, 45 (2000) 11

Plant growth
Salinity-induced effects on nitrogen assimilation related to growth in cowpea plants, 46 (2000) 171

Plants
What is stress to a wetland plant?, 46 (2000) 195

Plant stress
Wetland plant responses to soil flooding, 46 (2000) 299

Plant–water relations
Water transport in trees: current perspectives, new insights and some controversies, 45 (2000) 239

Plant water status
Acclimation of *Myrtus communis* to contrasting Mediterranean light environments — effects on structure and chemical composition of foliage and plant water relations, 45 (2000) 165

Population expansion
Variation in soil salinity associated with expansion of *Phragmites australis* in salt marshes, 46 (2000) 247

Pre-germination heating
Heat shock, mass-dependent germination, and seed yield as related components of fitness in *Cistus ladanifer*, 46 (2000) 11

Programmed cell death
Aluminum-induced cell death in root-tip cells of barley, 46 (2000) 71

Proliferative cell population
Diversity of cell lengths in terminal portions of roots: location of the proliferative cell population, 45 (2000) 85

Proline
Species and population variation to salinity stress in *Panicum hemitomon*, *Spartina patens*, and *Spartina alterniflora*: morphological and physiological constraints, 46 (2000) 277

Protein
Effects of ozone on biomass, non-structural carbohydrates and nitrogen in spring wheat with artificially manipulated source/sink ratio, 46 (2000) 155

Effects of atmospheric CO_2 enrichment on plant constituents related to animal and human health, 45 (2000) 179

Proteins
Protein and peroxidase changes in various root-cell fractions of two upland rice cultivars differing in Al tolerance, 46 (2000) 141

Reactive oxygen species
Aluminum-induced cell death in root-tip cells of barley, 46 (2000) 71

Redox potential
Wetland plant responses to soil flooding, 46 (2000) 299

Reducing sugars
Changes in non-structural carbohydrate composition during bulbing in sweet and high-solid onions in field experiments, 45 (2000) 73

Reproductive allocation
Heat shock, mass-dependent germination, and seed yield as related components of fitness in *Cistus ladanifer*, 46 (2000) 11

Residual transpiration
Relationships between flag leaf carbon isotope discrimination and several morpho-physiological traits in durum wheat genotypes under Mediterranean conditions, 45 (2000) 63

Respiration
UV-C irradiation reduces microbial populations and deterioration in *Cucurbita pepo* fruit tissue, 45 (2000) 1

***Rhizobium* spp.**
Nitrate reductase activity, distribution, and response to nitrate in two contrasting *Phaseolus* species inoculated with *Rhizobium* spp., 46 (2000) 37

Root biomass
Advancing fine root research with minirhizotrons, 45 (2000) 263

Root demography
Root dynamics in an artificially constructed regenerating longleaf pine ecosystem are affected by atmospheric CO_2 enrichment, 46 (2000) 55

Root exudates
The role of organic carbon excretion by bulbous rush roots and its turnover and utilization by bacteria under iron plaques in extremely acid sediments, 46 (2000) 237

Root lifespan
Advancing fine root research with minirhizotrons, 45 (2000) 263

Root meristems
Diversity of cell lengths in terminal portions of roots: location of the proliferative cell population, 45 (2000) 85

Root production
Root dynamics in an artificially constructed regenerating longleaf pine ecosystem are affected by atmospheric CO_2 enrichment, 46 (2000) 55

Roots
Root dynamics in an artificially constructed regenerating longleaf pine ecosystem are affected by atmospheric CO_2 enrichment, 46 (2000) 55

Root turnover
Root dynamics in an artificially constructed regenerating longleaf pine ecosystem are affected by atmospheric CO_2 enrichment, 46 (2000) 55

Root-zone temperature
Relationship among photosynthesis, ribulose-1,5-bisphosphate carboxylase (Rubisco) and water relations of the subtropical vegetable Chinese broccoli grown in the tropics by manipulation of root-zone temperature, 46 (2000) 119

Rubisco
Relationship among photosynthesis, ribulose-1,5-bisphosphate carboxylase (Rubisco) and water relations of the subtropical vegetable Chinese broccoli grown in the tropics by manipulation of root-zone temperature, 46 (2000) 119

Salinity
Distributions and adsorption of the methylamines in the intertidal sediments of an East Anglian Estuary, 46 (2000) 225

Variation in soil salinity associated with expansion of *Phragmites australis* in salt marshes, 46 (2000) 247

Salinity-induced effects on nitrogen assimilation related to growth in cowpea plants, 46 (2000) 171

Salt marsh
What is stress to a wetland plant?, 46 (2000) 195

Distributions and adsorption of the methylamines in the intertidal sediments of an East Anglian Estuary, 46 (2000) 225

Salt tolerance
Species and population variation to salinity stress in *Panicum hemitomon*, *Spartina patens*, and *Spartina alterniflora*: morphological and physiological constraints, 46 (2000) 277

Seawater salinity
Effect of foliar spray of nutrient solutions on photosynthesis, dry matter accumulation and yield in seawater-stressed rice, 46 (2000) 129

Seedlings
Size and longevity of seed banks in Antarctica and the influence of ultraviolet-B radiation on survivorship, growth and pigment concentrations of *Colobanthus quitensis* seedlings, 45 (2000) 143

Seed mass
Heat shock, mass-dependent germination, and seed yield as related components of fitness in *Cistus ladanifer*, 46 (2000) 11

Senescent leaves
The release of cytokinin-like compounds from *Gingko biloba* leaf material during composting, 45 (2000) 55

Shade plants
Acclimation of *Myrtus communis* to contrasting Mediterranean light environments — effects on structure and chemical composition of foliage and plant water relations, 45 (2000) 165

Soil water partitioning
Water transport in trees: current perspectives, new insights and some controversies, 45 (2000) 239

Solar radiation
Photosynthetic performance of the Atlantic brown macroalgae, *Cystoseira abies-marina*, *Dictyota dichotoma* and *Sargassum vulgare*, measured in Gran Canaria on site, 45 (2000) 21

Soybean callus bioassay
The release of cytokinin-like compounds from *Gingko biloba* leaf material during composting, 45 (2000) 55

Spartina
Variation in soil salinity associated with expansion of *Phragmites australis* in salt marshes, 46 (2000) 247

Spartina alterniflora
A comparison of physiological indicators of sublethal cadmium stress in wetland plants, 46 (2000) 263

Species and population variation to salinity stress in *Panicum hemitomon*, *Spartina patens*, and *Spartina alterniflora*: morphological and physiological constraints, 46 (2000) 277

***Spartina* patens**
Species and population variation to salinity stress in *Panicum hemitomon*, *Spartina patens*, and *Spartina alterniflora*: morphological and physiological constraints, 46 (2000) 277

Specific leaf area
Morphological and stomatal responses of Norway spruce foliage to irradiance within a canopy depending on shoot age, 45 (2000) 115

Spectral reflectance
A comparison of physiological indicators of sublethal cadmium stress in wetland plants, 46 (2000) 263

Stenocereus thurberi
Initial effects of UV-B radiation on stem surfaces of *Stenocereus thurberi* (organ pipe cacti), 46 (2000) 181

Stomatal conductance
Relationships between growth and gas exchange characteristics in some salt-tolerant amphidiploid *Brassica* species in relation to their diploid parents, 45 (2000) 155

Stomatal density
Relationships between flag leaf carbon isotope discrimination and several morpho-physiological traits in durum wheat genotypes under Mediterranean conditions, 45 (2000) 63

Stress
What is stress to a wetland plant?, 46 (2000) 195

Stress detection
A comparison of physiological indicators of sublethal cadmium stress in wetland plants, 46 (2000) 263

Subtropical vegetables
Relationship among photosynthesis, ribulose-1,5-bisphosphate carboxylase (Rubisco) and water relations of the subtropical vegetable Chinese broccoli grown in the tropics by manipulation of root-zone temperature, 46 (2000) 119

Sucrose
Changes in non-structural carbohydrate composition during bulbing in sweet and high-solid onions in field experiments, 45 (2000) 73

Sulfate
Atmospheric H_2S as sulfur source for *Brassica oleracea*: kinetics of H_2S uptake and activity of O-acetylserine (thiol)lyase as affected by sulfur nutrition, 46 (2000) 29

Sulfur deficiency
Atmospheric H_2S as sulfur source for *Brassica oleracea*: kinetics of H_2S uptake and activity of O-acetylserine (thiol)lyase as affected by sulfur nutrition, 46 (2000) 29

Sulfur deprivation
Atmospheric H_2S as sulfur source for *Brassica oleracea*: kinetics of H_2S uptake and activity of O-acetylserine (thiol)lyase as affected by sulfur nutrition, 46 (2000) 29

Sulfur dioxide
Variations of wood $\delta^{13}C$ for the past 50 years in declining Siebold's beech (*Fagus crenata*) forests, 45 (2000) 33

Sun plants
Acclimation of *Myrtus communis* to contrasting Mediterranean light environments — effects on structure and chemical composition of foliage and plant water relations, 45 (2000) 165

Superoxide dismutase
Activity of stress-related enzymes in the perennial weed leafy spurge (*Euphorbia esula* L.), 46 (2000) 95

Growth under elevated CO_2 ameliorates defenses against photo-oxidative stress in poplar (*Populus alba x tremula*), 45 (2000) 43

Surface injuries
Initial effects of UV-B radiation on stem surfaces of *Stenocereus thurberi* (organ pipe cacti), 46 (2000) 181

Tidal restriction
Variation in soil salinity associated with expansion of *Phragmites australis* in salt marshes, 46 (2000) 247

Total nitrogen
Distributions and adsorption of the methylamines in the inter-tidal sediments of an East Anglian Estuary, 46 (2000) 225

Tracheids length
Cambial history of Scots pine trees (*Pinus Sylvestris*) prior and after the Chernobyl accident as encoded in the xylem, 46 (2000) 1

Transpiration
Relationships between growth and gas exchange characteristics in some salt-tolerant amphidiploid *Brassica* species in relation to their diploid parents, 45 (2000) 155

Tree rings
Variations of wood $\delta^{13}C$ for the past 50 years in declining Siebold's beech (*Fagus crenata*) forests, 45 (2000) 33

Trees
CO_2 enrichment of sour orange trees: 13 years and counting, 46 (2000) 147

Trifolium repens
Reduced UV-B in greenhouses decreases white clover response to enhance CO_2, 46 (2000) 109

Trimethylamine
Distributions and adsorption of the methylamines in the intertidal sediments of an East Anglian Estuary, 46 (2000) 225

Triticum aestivum
Effects of ozone on biomass, non-structural carbohydrates and nitrogen in spring wheat with artificially manipulated source/sink ratio, 46 (2000) 155

Triticum durum
Relationships between flag leaf carbon isotope discrimination and several morpho-physiological traits in durum wheat genotypes under Mediterranean conditions, 45 (2000) 63

Tube installation
Advancing fine root research with minirhizotrons, 45 (2000) 263

Typha domingensis
A comparison of physiological indicators of sublethal cadmium stress in wetland plants, 46 (2000) 263

Upland rice
Protein and peroxidase changes in various root-cell fractions of two upland rice cultivars differing in Al tolerance, 46 (2000) 141

UV-B
Initial effects of UV-B radiation on stem surfaces of *Stenocereus thurberi* (organ pipe cacti), 46 (2000) 181

Size and longevity of seed banks in Antarctica and the influence of ultraviolet-B radiation on survivorship, growth and pigment concentrations of *Colobanthus quitensis* seedlings, 45 (2000) 143

UV-C irradiation
UV-C irradiation reduces microbial populations and deterioration in *Cucurbita pepo* fruit tissue, 45 (2000) 1

Vaucheria longicaulis* var. *macounii
Aluminum toxicity studies in *Vaucheria longicaulis* var. *macounii* (Xanthophyta, Tribophyceae). II. Effects on the F-actin array, 45 (2000) 223

Aluminum toxicity studies in *Vaucheria longicaulis* var. *macounii* (Xanthophyta, Tribophyceae). I. Effects on cytoplasmic organization, 45 (2000) 205

Vigna unguiculata
Salinity-induced effects on nitrogen assimilation related to growth in cowpea plants, 46 (2000) 171

Vitamin C
Effects of atmospheric CO_2 enrichment on plant constituents related to animal and human health, 45 (2000) 179

Water relations
Species and population variation to salinity stress in *Panicum hemitomon*, *Spartina patens*, and *Spartina alterniflora*: morphological and physiological constraints, 46 (2000) 277

Relationship among photosynthesis, ribulose-1,5-bisphosphate carboxylase (Rubisco) and water relations of the subtropical vegetable Chinese broccoli grown in the tropics by manipulation of root-zone temperature, 46 (2000) 119

Water status
Relationships between flag leaf carbon isotope discrimination and several morpho-physiological traits in durum wheat genotypes under Mediterranean conditions, 45 (2000) 63

Water stress
Involvement of antioxidants and lipid peroxidation in the adaptation of two cool-season grasses to localized drought stress, 45 (2000) 105

Water use efficiency
Relationships between growth and gas exchange characteristics in some salt-tolerant amphidiploid *Brassica* species in relation to their diploid parents, 45 (2000) 155

Wetland
What is stress to a wetland plant?, 46 (2000) 195

Wetlands
Wetland plant responses to soil flooding, 46 (2000) 299

WUE
Influence of elevated CO_2 on the sensitivity of two soybean cultivars to sulphur dioxide, 46 (2000) 81

Xylem cavitation
Water transport in trees: current perspectives, new insights and some controversies, 45 (2000) 239